

Dipole moment and the configuration of cyclic compounds - Communication 2. 1,3-Dioxanes

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Abstract

1. Dipole moment data shows that 1,3-dioxane and its substituted forms containing nonpolar substituents at the second carbon atom have the armchair configuration. 2. The molecules of 2-bromomethyl-1,3-dioxane and 2-ethoxy-4-methyl-1,3-dioxane have the armchair configuration with the polar groups in the equatorial position. Free rotation of the CH₂Br groups is possible in the case of 2-bromomethyl-1,3-dioxane. © 1963 Consultants Bureau.

<http://dx.doi.org/10.1007/BF00920252>
